

Re: Wirth #5 Re-Plug

From: Sutphin - DNR, Dirk

Sent: Thu, May 21, 2015 at 1:13 pm

To: Brett Hall

Cc: Brianne Visconti, jarmstrong@syrginfo.com

image003.jpg (6.3 KB)

Brett,

Your modified plans are approved. If you don't have full returns pumping the first plug at 2700', WOC between the 2 squeezes so they don't move. Tag the 265' plug after waiting on cement to set up to confirm top of plug is above the surface casing shoe.

Perforate and Squeeze @ 2,700' with 40 sx. WOC 4 hrs.

Perforate and Squeeze @ 1,900' with 40 sx.

Open-hole plug @ 550' with 40 sx on top of 4-1/2" casing stub.

Surface casing shoe plug @ 265' with 50 sx. Tag 50' above shoe.

Surface plug cement 50'-surface.

Thank you for the call. Call if any questions,

Dirk Sutphin, PE

East Region Engineer



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On Thu, May 21, 2015 at 12:34 PM, Brett Hall <bhall@syrginfo.com> wrote:

Good Afternoon Dirk,

As a follow up to our telephone conversation a few minutes, Synergy Resources is making the following changes to re-plug program approved by the COGCC in Document Number 400813459 for the Wirth #5 API 05-087-07979:

Because we have encountered numerous obstructions in the old 4.5" casing until encountering an obstruction @ 2,750' we were not able through, the following changes were discussed:

Perforate and Squeeze @ 2,700' with 40 sx

Perforate and Squeeze @ 1,900' with 40 sx

Open-hole plug @ 550' with 40 sx

Bottom Surface plug @ 265' with 50 sx

Top surface plug 50'-surface.

Thanks for your help, Dirk, if anyone has any additional questions please don't hesitate to e-mail/call.

Brett Hall

Reservoir Engineer

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